Revision 1

Store at -20C

#9867

Cyclin Dependent Kinase Inhibitor Antibody Sampler Kit

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
p15 INK4B Antibody	4822	40 µl	15 kDa	Rabbit
p27 Kip1 (SX53G8.5) Mouse mAb	3698	40 µl	27 kDa	Mouse IgG1
p18 INK4C (DCS118) Mouse mAb	2896	40 µl	18 kDa	Mouse IgG2a
p21 Waf1/Cip1 (12D1) Rabbit mAb	2947	40 µl	21 kDa	Rabbit IgG
p57 Kip2 Antibody	2557	40 µl	57 kDa	Rabbit
p27 Kip1 (D69C12) XP® Rabbit mAb	3686	40 µl	27 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 µl		Horse

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The Cyclin Dependent Kinase Inhibitor Antibody Sampler Kit provides an economical means to investigate cyclin dependent kinase inhibitors. The kit contains enough primary and secondary antibody to perform four western blot experiments.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Background

The cyclin-dependent kinase complex can exist as an active, binary complex containing cyclin and kinase or as an inactive, ternary complex when the pair associates with a CKI inhibitor. Some of these component proteins act selectively within their cyclin/CDK complex while other proteins exhibit a broader range of functions, including roles apart from the CDK complex (1,2). The INK4 family is characterized by 32 amino acid ankyrin repeats that mediate specific interactions with CDK4/6 and cyclinD/CDK4/6 (3). The Kip family includes p27, perhaps one of the most versatile proteins by virtue of its inherently context-adaptive structure. p27 has been implicated in regulatory roles of cell cycle progression, malignant transformation, cell motility, and differentiation (4,5). Similarly, p21 interacts with several CDK complexes during different cell cycle stages to exert different effects; p21 is regulated by phosphorylation and ubiquitin-mediated degradation (6,7).

Background References

1. Harper, J.W. (1997) *Cancer Surv* 29, 91-107.
2. Viallard, J.F. et al. (2001) *Cancer Radiother* 5, 109-29.
3. Noh, S.J. et al. (1999) *Cancer Res* 59, 558-64.
4. Borriello, A. et al. (2007) *Cell Cycle* 6, 1053-61.
5. Chassot, A.A. et al. (2008) *Cell Cycle* 7, 2038-46.
6. Kim, Y. et al. (2008) *Genes Dev* 22, 2507-19.
7. Abbas, T. and Dutta, A. (2009) *Nat Rev Cancer* 9, 400-14.

Trademarks and Patents

Limited Uses

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